

**AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A method of altering the regulation of expression of a gene selected from Class I  $\beta$ -tubulin, tropomyosin-4, ~~kinesin~~ kinesin heavy chain and combinations thereof comprising, contacting the gene with an effective amount of follicle stimulating hormone (FSH).
2. (Original) The method of claim 1 wherein the gene is contained within the granulosa cell.
3. (Original) The method of claim 2 wherein the granulose cell is contacted with FSH at the preantral or early antral stage of follicle development.
4. (Original) A method of altering regulation of follicular development, atrophy and/or ovulation comprising exposing immature granulosa cells to an effective amount of follicle stimulating hormone at an early stage of granulosa cell differentiation.
5. (Original) A method of altering differentiation of immature granulosa cells comprising exposing the immature granulosa cells to an effective amount of follicle stimulating hormone at an early state of granulosa cell differentiation.
6. (Original) A method of altering beta-tubulin gene expression during follicular development comprising exposing the large preantral and early antral follicles of an animal to an effective amount of follicle stimulating hormone at an early stage of immature granulose cell differentiation.